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IUBMB Enzyme Nomenclature

# EC 2.5.1.29

**Common name:** farnesyltransferase

**Reaction:** *trans,trans*-farnesyl diphosphate + isopentenyl diphosphate = diphosphate + geranylgeranyl diphosphate

For reaction pathway [click here](#).

**Other name(s):** geranylgeranyl-diphosphate synthase; geranylgeranyl pyrophosphate synthetase; geranylgeranyl-PP synthetase; farnesyltransferase; geranylgeranyl pyrophosphate synthase

**Systematic name:** *trans,trans*-farnesyl-diphosphate:isopentenyl-diphosphate farnesyltransferase

**Comments:** Some forms of this enzyme will also use geranyl diphosphate and dimethylallyl diphosphate as donors; it will not use larger prenyl diphosphates as efficient donors.

**Links to other databases:** [BRENDA](#), [EXPASY](#), [KEGG](#), [ERGO](#), CAS registry number: 9032-58-0

**References:**

1. Sagami, H., Ishi, K. and Ogura, K. Occurrence and unusual properties of geranylgeranyl pyrophosphate synthetase of pig liver. *Biochem. Int.* 3 (1981) 669-675.

[EC 2.5.1.29 created 1984]

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